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terized as blue, red, green, etc. The joke was on a young man who happened to have a yellow voice.

M. Pedrona says that his friend had perfect sight and hearing and that he was in the best of health. With him a luminous impression seemed to be made before he experienced the sonorous impression. So keen was the chromatic sensitiveness that he knew whether the sound was blue, red, yellow, or of other color, before he could judge of its quality and intensity. He differed in one respect from the Zurich student - he did not perceive a change of color with every modification of tone. A sharp note was only brighter, while the flat one was duller than the natural. The same piece of music played upon different instruments produced different sensations. A melody played on a clarionet was red and on a piano blue. The color was intense in proportion to the energy of the sound. The colored appearances of the sound were perceived on the vibrating body, for instance, on the strings of the guitar or over the keys of the piano. "The seat of color," said the person who experienced these impressions, "appears to me to be principally where the sound is made, above the person who is singing. The impression is the same if I do not see any one. There is no sensation in the eye, for I think of the same color with my eyes shut. It is the same when the sound comes When I hear from the street through the walls and partitions. a choir of several voices, a host of colors seem to shine like little points over the choristers; I do not see them but I am impelled to look toward them and sometimes, while looking toward them, I am surprised not to see them."

This association of colors with sounds is more common than has hitherto been thought by the few persons who have called attention to the phenomena. It has been assumed that the experiences were hallucinations. It is more probable that they result from some connection between the auditory and visual nervous fibres. It is now known that there are motor nerve-centres which perform particular functions, and it will probably be found that near the acoustic centres are also chromatic centres, and that, in such cases as have been described above, they echo to each other. The fibres of the nerve of hearing may thus produce vibrations at different periods of the chromatic fibres.

According to the doctrine of evolution all the other senses have come slowly into existence as so many modifications of feeling. Indeed, hearing and sight, as well as taste, are modes of feeling. Differentiation of feeling has, in the evolutionary processes, corresponded with the differentiation of physical structure. In the lowest forms of life there are no developed and defined parts like the organs of hearing, sight, smell, and none such as in the higher animals make possible variety and sensitiveness through touch alone. "The spider's touch, how exquisitely fine," exclaims Pope. What a difference in the sensation of touch between the speck of living jelly, homogeneous so far as it appears to the eye, and a man with his differentiated structure, his several senses through which

Soft silence and the night Become the teachers of sweet harmony.

THE GULL LAKE BIOLOGICAL STATION OF THE UNI-VERSITY OF MINNESOTA.

BY CONWAY MACMILLAN, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN.

The establishment, during the present season of an inland biological station, marks a new epoch in Americal biological instruction. While several excellent marine stations have already been organized both upon the Atlantic and Pacific coasts, and most recently upon the Gulf of Mexico, up to the present time—so far as known to the writer—there has been no inland station provided for the free use of American investigators. The great need of such a station, well equipped for every kind of biological work, has long been pressing, and it is now hoped that a foundation has been secured upon which to build as broadly as possible for the best interests of American biology. The establishment by individual enterprise of such a private laboratory as the well-known one at Milwaukee, has served to accentuate the need of an inland station, access to which might be general. The Uni-

versity of Minnesota proposes now to offer such a station, and a party of twenty, representing at least four different institutions, begin work early in June. The station is situated upon one of the deep bays of Gull Lake, in Cass County, Minnesota. This lake is about eighteen miles from Brainerd, and lies in the pinebelt of central Minnesota. It is an attractive sheet of water, about twelve miles in length and four miles in width, with irregular coast-line, and surrounded by hills, meadows, marshes, promontories, swamps and smaller lakes. With a great diversity of conditions in its vicinity and in its own waters, it is an excellent spot for general inland biological work. Its situation, too, as one of the innumerable lakes which form the general reservoir in which the great central river of the continent takes its rise, adds an interest to its study. As a region for the investigation of the various problems of isolation it is peculiarly fine. Many of the hundreds of lakes in Cass county were originally united, but are now separated from each other by permanent divides. such waters, comparative study of the plankton, pelagic and limnetic groups of organisms can not but be productive of new and important results. Both zöologically and botanically, Gull Lake and its tributary country promise a rich field of investigation.

The laboratory buildings form a cluster of cottages on the brow of an abrupt hill, lying toward the east. The cottages number five, and in addition there is a larger building, two stories in height, with kitchen and dining room and sleeping apartments. These buildings have been placed at the disposal of the biological departments of the University through the courtesy of the Northern Mill Company of Minneapolis. Until recently, they formed a supply camp and headquarters for the company while it was cutting timber in the vicinity of the west shores of Gull Lake. The cottages are neatly plastered and papered, and form an altogether admirable series of buildings for a summer station. From Brainerd, the laboratories are reached by the Brainerd and Northern Minnesota Railway, the officials of which have assisted much in the development of the plan of establishment.

Apparatus of all necessary sorts has been shipped from the University, and the investigators in the station will be given every facility in the power of the University to pursue their work under favorable and inspiring conditions. Boats have been put upon the lakes, and a steamer belonging to the Northern Mill Company has been placed at the disposal of the station for extended trips about Gull Lake itself. Dredges, nets, seines, collecting apparatus of all sorts, both aquatic and terrestrial, have been shipped to the station, and are in constant use. Abundant opportunity for collection may be secured, and those who desire are permitted to give their principal attention to such work, while others are engaged more particularly upon lines of special research.

The direction of the laboratory is under the professors of botany and animal biology in the University of Minnesota, and thus broadly organized there is no danger that the name will be a misnomer for a special zoölogical or botanical station. The plan of establishment contemplates the largest and most modern development, and equipment for work in experimental embryology, oecology, plankton study, etc., will be freely provided, as it is demanded.

To the botanists and zoölogists of America it is not necessary to explain or defend the establishment of such a station. Modelled, as it is, somewhat upon the lines of its old world predecessor, Plön, it hopes by its connection with one of the state universities to offer its advantages to a constantly increasing circle of investigators, at a cost much below that which might be possible for any private institution of kindred nature. While still in an inchoate condition, when the ultimate possibilities and expectations are considered, it will begin with a relatively large corps of workers, under conditions highly favorable for a successful continuance. It will, during the first season, from June 1st to September 1st, welcome any serious student who may come to its doors. While its accommodations are not unlimited, it can care for such as give due announcement of their coming, and the directors will be glad to enter into correspondence with those contemplating a visit. The address of mail should be as follows: Stony Brook Landing, care of Northern Mill Co., Brainerd, Minn.